

6

Paper - I

33 = 92

Term1 syllabus

Trade Food preservation

FOOD PROCESSING

1. Food Processing

Definition, Types, Technique, Common Terms used in Food Processing.

2. Unit Operation

Definition, Types of Unit Operation General Principles of Food Processing, Small and Large Scale

Processing, Sanitation and Hygiene at Food Processing unit.

3. Processing by Heat

Pasteurization and Sterilization, Preparation of Milk Products, Cheese, Condensed and Evaporated Milk, Whole and Skim Milk Powder and Ice Cream, Curd and Yogurt. Difference between Curd and Yogurt, Processing of Vegetable and Fruit by heat.

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PLANT MANAGEMENT

1. Factory Layout Plan

Plant Layout, Selection of Site, Water Supply, Drainage, Labour, Equipment Forward Backward Linkage, Maintenance of Equipment.

2. Water

Types, Chemical and Bacteriological Qualities of Water, Management of Water, Impact of Hard Water on Equipment, Food and Containers. Chlorination of Water and its Importance in Food Processing.

3. Detergents and Cleaning Agents Types, Uses and Selection of Cleaning Agents for Food Industry, Working with detergents and other Cleaning Agents in a Food Processing Unit, Precautions.

4. Hygiene and Sanitation Hygienic Standards for Plant and Staff, Disinfection in a Food Processing Unit and Waste Disposal of Plant.

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FOOD PACKAGING

1. Food Packaging

Introduction, Definition, Importance of Packaging of Food, Modes and Economic Properties, Advantages and Disadvantages and scope of food packaging.

2. Packing Materials

Origin, types - Traditional and Modern, Properties, Economical Status and Eco Friendly Packaging Materials

3. Modern Packaging Materials.

Introduction, Availability, Utility and Recycling of - O.T.S. Cans, Bottles, P.V.C. L.D.P.E., H.D.P.E, Laminators, Retort Pouch, Pet Bottles and Glass.

4. Paper Packaging

Introduction, Types, Uses, Limitations of Butter Paper, Wax Paper, Cellophane Paper, Brown Paper, Plastic Films, Aluminum Foils, Poly Coated Paper and Laminations.

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